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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/621,086	07/15/2003	Yasuo Hirata	P/16-337	9265
2352 7590 02/18/2009 OSTROLENK FABER GERB & SOFFEN 1180 AVENUE OF THE AMERICAS			EXAMINER	
			SMITH, PHILIP ROBERT	
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# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/621,086	HIRATA, YASUO
Office Action Summary	Examiner	Art Unit
	PHILIP R. SMITH	3739
The MAILING DATE of this communication app. Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from the application to become ABANDONE.	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 21 N 2a) This action is <b>FINAL</b> . 2b) This 3) Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pr	
Disposition of Claims		
4) ☐ Claim(s) 1-28 is/are pending in the application 4a) Of the above claim(s) 3,6 and 17-28 is/are 5) ☐ Claim(s) 2,4,5,7 and 13-16 is/are allowed. 6) ☐ Claim(s) 1 and 8-12 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	withdrawn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)		-
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO/SB/08)         Paper No(s)/Mail Date     </li> </ol>	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	pate

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### **DETAILED ACTION**

# Claim Rejections - 35 USC § 102

[01] The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

- [02] The rejection of claims 1-2,8,10 as being anticipated by Flaherty (6,726,677) set forth in the Office action of 1/11/08 are withdrawn in view of the amendments of 4/11/08.
- [03] Claims 1 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Sachdeva (5,607,435).
- [04] With regard to claim 1: Sachdeva discloses an endoscope system comprising:
  - [04a] an endoscope having an elongated insertion unit ("tubular section 12") comprising adjoining bending ("leading end 17 of the tubular section 12 is bent or curved relative to a longitudinal axis 20 of the balance of the tubular section 12 remaining in the delivery tube 14" 6/40-43) and distal sections; and
  - [04b] a guide member for guiding the insertion unit, the guide member having proximal and distal guide member ends and including a plurality of tubular members ("one or more tubular sections like tubular section 22" 7/46) having varying outer diameters (see Figure 2B), each tubular member of the plurality of tubular members having
    - proximal and distal ends;
    - a guide channel of a predetermined inner diameter permitting passage of tubular members having smaller outer diameter and the insertion unit ("bore 24 formed by a wall 25 made of a material exhibiting superelastic characteristics" 7/22),
    - a predetermined degree of flexibility ("sufficiently rigid superelastic material to function as a delivery tube" 7/37),

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a predetermined length, and

- a direction changing unit ("curl in one direction" 7/43) operative to change an
  advancing direction in which tubular members having smaller outer diameter ("curl in
  the opposite direction" 7/44) and the insertion unit are advanced through the guide
  channel ("increasing the maneuverability of the instrument 10" 7/45), the direction
  changing unit having an opening for receiving the distal end of the tubular member (as
  noted above).
- wherein the guide member is adapted to be passed through or placed in a pipe.
- [05] With regard to claim 8: Sachdeva discloses that when the insertion unit guide member is being formed, the plurality of tubular members being joined are arranged so that:
  - [05a] the inner and outer diameters of a tubular member located on the distal guide member end will be smaller than the inner and outer diameters of a tubular member located on the proximal guide member end (see Figure 2B);
  - [05b] a length of the tubular member located on the distal guide member end [is] greater than that of the tubular member located on the proximal guide member end (see Figure 2B); and
  - [05c] the degrees of flexibility of the tubular members are determined so that the tubular member located on the distal guide member end are softer than the tubular member located on the proximal guide member end ("This may be accomplished by making tubular section 22 out of a more rigid or stronger superelastic material than that used to make tubular section 12" 7/39).

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# Claim Rejections - 35 USC § 103

[06] The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

- [07] Claims 9,11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sachdeva (5,607,435) in view of Krupa (2003/0216616).
- [08] As noted above, Sachdeva discloses a plurality of juxtaposed tubes. Sachdeva does not disclose a tool tubular member which is interposed between a tube and a braid that sheathes a periphery of the tube.
- [09] Krupa discloses an "instrument channel 410" which is interposed (see Figure 2) between a number of tubes and "a layer 404 of braided material". Krupa discloses in [0037] that

[e]xamples of materials from which layer 404 can be formed include braid or mesh manufactured from, for example, metals, alloys, low-stretch polymers (e.g. nylon, Kevlar), fiberglass, and composites of these materials. Typically, the braid or mesh wire or thread has a round cross section, but other shaped cross-section can be used (e.g., flat, oval).

[10] At the time of the invention, it would have been obvious to a person of ordinary skill in the art that Flaherty's invention comprise a braid for sheathing a periphery of the tube, as this is well known in the art to be a strong, flexible, and lightweight material. It is also well-known to provide a tool tubular member. A skilled artisan would be motivated to do so in order to enable endoscopic surgery.

#### Additional Claim Rejections - 35 USC § 103

- [11] Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sachdeva (5,607,435) in view of Flaherty (6,726,677).
- [12] Sachdeva discloses a tubular member, as noted above. Sachdeva does not disclose a balloon.

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[13] Flaherty discloses a balloon ("balloon 76," 14/33) that changes from a contracted state to a dilated state or vice versa is located at the middle of the tubular member; and when dilated, the balloon comes into close contact with the wall of the pipe, and the tubular member is locked at a predetermined position in the pipe.

[14] At the time of the invention, it would have been obvious to a person of ordinary skill in the art to include a balloon at the middle of a tubular member. A skilled artisan would be motivated to do so in order to "facilitate accurate and reliable positioning" (2/59).

### Additional Claim Rejections - 35 USC § 103

- [15] Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sachdeva (5,607,435) in view of Hasegawa (2002/0032365).
- [16] As noted above, Sachdeva discloses an insertion unit. Sachdeva does not disclose a drum.
- [17] Hasegawa discloses a drum and an insertion unit about which the insertion unit is wound and which has a controller, which controls the bending section, incorporated in a center, and a support for supporting the drum so that the drum can freely rotate (see Figure 17a).
- [18] At the time of the invention, it would have been obvious to a person of ordinary skill in the art to incorporate the drum of Hasegawa into the endoscope of Sachdeva. A skilled artisan would be motivated to do so in order to conserve space and enhance portability.

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# Allowable Subject Matter

[19] Claims 2, 4-5, 7, 13-16 are allowed. The Office action of 8/22/08 contains the reasons for allowance.

### **Response to Arguments**

- [20] Applicant's arguments filed 11/21/08 have been fully considered but they are not persuasive.
- [21] Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

### Conclusion

- [22] **THIS ACTION IS MADE FINAL**. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- [23] A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.
- [24] Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHILIP R. SMITH whose telephone number is (571)272-6087 and whose email address is philip.smith@uspto.gov. The examiner can normally be reached between 9:00am and 5:00pm.
- [25] If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda Dvorak can be reached on (571) 272 4764.

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/Philip R Smith/

Examiner, Art Unit 3739

/Linda C Dvorak/

Supervisory Patent Examiner, Art Unit 3739